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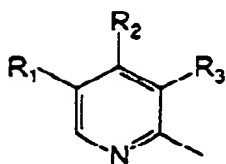
Amended claims

1. An administration regimen for improved inhibition of gastric acid secretion, characterized in that an extended blood plasma profile of a H^+ , K^+ -ATPase inhibitor is obtained and that said H^+ , K^+ -ATPase inhibitor is a compound with the formula I

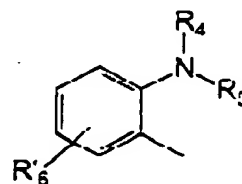


wherein

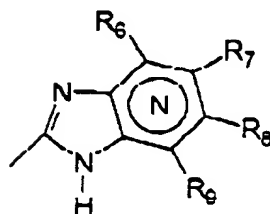
Het₁ is



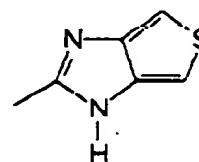
or



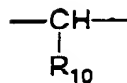
Het, is



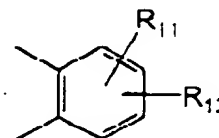
For



X-



or



and wherein

AMENDED SHEET

PC/SE97/01776

11-09-1998

N₁ in the benzimidazole moiety means that one of the ring carbon atoms substituted by R₄-R₉ optionally may be exchanged for a nitrogen atom without any substituents;

R₁, R₂ and R₃ are the same or different and selected from hydrogen, alkyl, alkoxy optionally substituted by fluorine, alkylthio, alkoxyalkoxy, dialkylamino, piperidino, morpholino, halogen, phenyl and phenylalkoxy;

R₄ and R₅ are the same or different and selected from hydrogen, alkyl and aralkyl;

R₆ is hydrogen, halogen, trifluoromethyl, alkyl and alkoxy;

R₇-R₉ are the same or different and selected from hydrogen, alkyl, alkoxy, halogen, halo-alkoxy, alkylcarbonyl, alkoxy carbonyl, oxazolyl, trifluoroalkyl, or adjacent groups R₇-R₉ form ring structures which may be further substituted;

R₁₀ is hydrogen or forms an alkylene chain together with R₃ and

R₁₁ and R₁₂ are the same or different and selected from hydrogen, halogen or alkyl.

2. An administration regimen according to claim 1 characterized in that the H⁺, K⁺-ATPase inhibitor is a compound selected from the group of omeprazole, an alkaline salt of omeprazole, the (-)-enantiomer of omeprazole and an alkaline salt of the (-)-enantiomer of omeprazole.

3. An administration regimen giving an extended blood plasma profile of a H⁺, K⁺-ATPase inhibitor according to any of claims 1 and 2 characterized in that the extended plasma profile is obtained by two or more consecutive oral administrations of a unit dose of the H⁺, K⁺-ATPase inhibitor with 0.5 - 4 hours intervals.

4. An administration regimen giving an extended blood plasma profile of a H⁺, K⁺-ATPase inhibitor according to claim 1 characterized in that the extended plasma profile is obtained by oral administration of a unit dose of a pharmaceutical

AMENDED SHEET

PC/SEP 7/01000

11-09-1998

preparation which releases the drug for absorption in two or more discrete pulses separated in time by 0.5 - 4 hours.

5. An administration regimen according to claim 1, characterized in that the extended plasma profile is obtained by oral administration of a unit dose of a pharmaceutical preparation which releases the H^+ , K^+ -ATPase inhibitor for absorption with an almost constant rate during an extended time period.

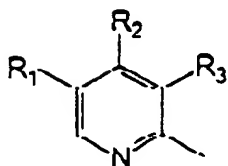
6. An administration regimen according to any of claims 1 - 5 characterized in that the extended plasma profile is received during 2 - 12 hours.

7. An oral pharmaceutical composition giving an extended blood plasma profile of a H^+ , K^+ -ATPase inhibitor, characterized in that the H^+ , K^+ -ATPase inhibitor is a compound with the formula I

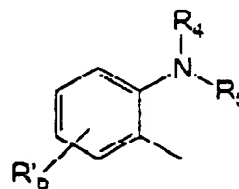


wherein

Het₁ is



or

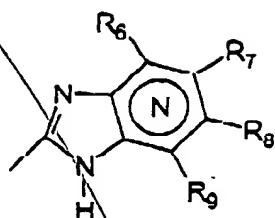


Het₂ is

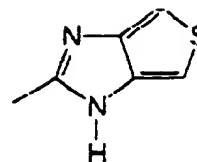
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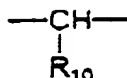
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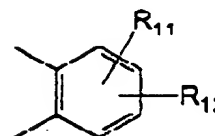
or



X =



or



wherein

N in the benzimidazole moiety means that one of the ring carbon atoms substituted by R_6 - R_9 , optionally may be exchanged for a nitrogen atom without any substituents;

R_1 , R_2 and R_3 are the same or different and selected from hydrogen, alkyl, alkoxy optionally substituted by fluorine, alkylthio, alkoxyalkoxy, dialkylamino, piperidino, morpholino, halogen, phenyl and phenylalkoxy;

R_4 and R_5 are the same or different and selected from hydrogen, alkyl and aralkyl;

R_6 is hydrogen, halogen, trifluoromethyl, alkyl and alkoxy;

R_6 - R_9 are the same or different and selected from hydrogen, alkyl, alkoxy, halogen, halo-alkoxy, alkylcarbonyl, alkoxy carbonyl, oxazolyl, trifluoroalkyl, or adjacent groups R_6 - R_9 form ring structures which may be further substituted;

R_{10} is hydrogen or forms an alkylene chain together with R_1 and

R_{11} and R_{12} are the same or different and selected from hydrogen, halogen or alkyl.

8. An oral pharmaceutical preparation according to claim 7, characterized in that the H^+ , K^+ -ATPase inhibitor is a compound selected from the group of omeprazole, an

AMENDED SHEET

PCT/SE97/01093

11-09-1998

alkaline salt of omeprazole, the (-)-enantiomer of omeprazole and an alkaline salt of the (-)-enantiomer of omeprazole.

9. An oral pharmaceutical preparation giving an extended blood plasma profile of a H^+ , K^+ -ATPase inhibitor according to claim 7 characterized in that the pharmaceutical preparation releases the drug for absorption in two or more discrete pulses separated in time by 0.5 - 4 hours.

10. An oral pharmaceutical preparation according to claim 7, characterized in that the pharmaceutical preparation releases the H^+ , K^+ -ATPase inhibitor for absorption with an almost constant rate during an extended time period.

11. An oral pharmaceutical preparation giving an extended blood plasma profile of a H^+ , K^+ -ATPase inhibitor according to any of claims 7 - 10 characterized in that the ~~extended plasma profile is received during 2 - 12 hours.~~

12. Use of an oral pharmaceutical composition as claimed in any of claims 7 - 10 in the manufacture of a medicament with improved inhibition of gastric acid secretion.

13. Use of an oral pharmaceutical composition as claimed in any of claims 7 - 10 in the manufacture of a medicament with improved therapeutic effect in the treatment of gastrointestinal disorders associated with excess acid secretion.

14. Use of H^+ , K^+ - ATPase inhibitor with the formula I defined in claim 1, for the preparation of a pharmaceutical composition with extended release.

15. A method for improving inhibition of gastric acid secretion which comprises administering to a patient in need thereof, an oral pharmaceutical composition as claimed in any of claims 7 - 10.

16. A method for improving the therapeutic effect in the treatment of gastrointestinal disorders associated with excess acid secretion which comprises

AMENDED SHEET

PCT/SE97/G1000

11-09-1998

administering to a patient in need thereof, an oral pharmaceutical composition as claimed in any claims 7 - 10.

17. A method for receiving an extended plasma profile of a H^+ , K^+ - ATPase inhibitor by administering to a patient in need thereof a pharmaceutical preparation with extended release of a H^+ , K^+ - ATPase inhibitor as defined in claim 1.

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